information disclosure statement by Applicant —— 0.5. Fatent documents	Information Disclosure	Statement by Applicant	- U.S. Patent Documents -
--	------------------------	------------------------	---------------------------

orm 1449	A Modifie	ed	Application Number	09/893,292	DEC		Ì
IPE		<u> </u>	Filing Date	June 26, 2001	THE		1
7.6	λ	 	First Named Inventor	Brad A. Armstrong	 	2224	1
	%}		Art Unit		APR	2 8 2004	1
2 2 2004	টা		Examiner Name			<u> </u>	1
	5		Applicant's File Number		Technolo	gy Center	Þ
	3)		7 ppiloditt 3 Title Trainber	120	100111010	9) 00	T
DADEL	/			· · · · · · · · · · · · · · · · · · ·			1
MADEL	US	Publication	Patentee or Applicant	Relevent Information	US Class		1
nitials	Patent		Name	Kelevent Illiointation	OO OIGSS		ŀ
IIIIGIS	Number		Name			İ	ı
	MILLINGI					<u> </u>	1
(1)	5340370	9/20/1994	KATAYAMA ET AL	Cited for related Interest	345/159	 	┨
			FURTADO ET AL	Footnote 100 Special Interes			+
			VOLK ET AL		395/327	 	+
				Footnote 98 - Special Interest			┨
					273/85		┨
				Cited for related Interest	463/3		┨
				Cited for related Interest	463/6		┨
					340/870	•	1
				Cited for related Interest	600/595		┨
					345/157		┨
		12/29/1998		Footnote 99 - Special Interest			┨
					463/53		+
					345/629		┨
				Footnote 101 — Special Interes			┨
		10/25/1994		Footnote 106 - Special Interes			1
					345/157		1
	6225976				345/156		1
				Footnote 103 - Special Interes			1
				Footnote 105 - Special Interes			1
				Footnote 104 - Special Interes			\mathbf{I}
				Footnote 102 - Special Interes			1
				Footnote 109 - Special Interes		·	1
				Footnote 110 — Special Interes			\mathbf{I}
				Footnote 111 - Special Interest			┨
					338		$\left\{ \right.$
				Cited for related Interest	338		┨
	5619180	4/0/199/	MASSIMINO ETAL	Cited for related Interest	340		1

Best Available Copy

			 	·	
Examiner Signature	Van	1 Am	 Date Considered	2/19	105
	<u> </u>	7/0	 		

Information Disclosure Statement By Applicant - Foreign Patent Documents -

Form 1449	9 Modified		Application Number		\mathbf{B}	ECE!
			Filling Date	June 26, 2001	8 · E	
			First Named Inventor	Brad A. Armstrong		APR 2 8
			Art Unit	2673		Ark & o
			Examiner Name	D. CHOW	1	La sur Co
			Applicant's File Number	F28	leci	nology Ce
	Foreign Patent		Inventor or Applicant	Relevent information		
<u>nitials</u>	Document No.		Name			
		mm-dd-yyyy				
Chan	EP0302158	11-13-1987		Cited for related Interest		
1	EP0830881	08-07-1998	KONAMI CO. LTD	Cited for related Interest		
	EP0626634	11-30-1994	MATSUSHITA ELEC.	Cited for related Interest		
	EP0403054	12-19-1990	QUANTAL LTD.	Cited for related Interest		
	JP11009837	04-30-1999	TAITO CORP.	Cited for related Interest		
	EP0952555	10-27-1999	SAIKAWA ET AL	Cited for related Interest		•
	EP0852961	07-15-1998	KONAMI CO. LTD	Cited for related Interest		
	WO0152042	07-19-2001	SONY COMP. ENTER.	Cited for related Interest		-
	JP07-051467	02-28-1995	MITSUNORI ETAL	Footnote 112 - Special Ir	nteres	t .
	TW288636	10-11-1996	PRIMAX ELECTRONIC	Cited for related Interest		
	TW369431	09-11-1999	<u> </u>	Cited for related Interest		
		09-29-1999		Cited for related Interest		
\neg	JP-B-H1-40545			Footnote 113 Special Ir	nteres	t
		<u> </u>				

Examiner Signature	Van	(Con	Date Considered	2/1/	9/05

*EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

NON PATENT LITERATURE DOCUMENTS AND OTHER REFERENCES -

PEVCS	NON PATENT	LITERATURE	DOCUMEN	ITS AND OT	THER REFE	RENCES -		y
and "						,		,
1		<u></u>			ļ		DECE	IVED
18 E	Application Number: 09				ļ	<u></u>	ILUL	
***	Filing Date: June 26, 20			<u> </u>			800.0	2004
CM & TANK	First Named Unit: Brad	A. Armstrong	L			ļ	APR 2	B 7004
2110	Group Art Unit: 2673							
	Examiner's Name: D. C					I To	chnology	Center 2600
	Applicant File Number:	F28	L				·	
			L		<u> </u>	ļ <u>.</u>	ļ	. ·
EXAMINER INITIALS	NON PATENT LITERATURE	Additional Data in						
	DOCUMENTS AND	Footnote	Į					
	OTHERS				1	ì		
	REFERENCES		i					
				Ī		Ī		1
	IBM TECHNICAL	Cited for			ĺ			1
/	DISCLOSURE	related			ł			
	BULLETIN, vol. 21, no.				1			
10000	9, Feb. 1, 1979, pages			}				
İ	3845-3846			i				
	Anonymous author,							1
1	Title: "Keyboard Device				1			
	For Upper And Lower		ļ		,	•	ļ	-
	Case Keying Without		ŀ		Ì			
	Shifting". The Present					į		
,	Applicant could not							
	locate a copy of this		l .					
	IBM disclosure but lists		·		ŀ			
	the data because it was							
	cited as an "X"	,				j		
	reference in a						·	
1	European Patent Office		Ì					
	Search report on a		1			ļ		
1	related invention filed		i	l				
i	for by another			1				
ļ	Applicant.			ļ				
1 . ,	Jim Boyce et al, Inside						[
1 (lan)		related	1		ł			
1 W	Riders Publishing,	interest	ļ		ļ			
i i	Platinum Edition, Page		l					
	87-89							
	ļ							
ļ								
	·							
	•							
					l			·
		·						
					· · · · · · · · · · · · · · · · · · ·			
				-				

		7		_	7	```		 	<u> </u>			$\overline{}$
Examinar Signature	\mathcal{L}	/siz	*	4	1m		•	Date Considered	. 3	\angle	19	105
											,	,

2 100 S								٠
J. 197				I				
, F	Application Nu	09/893,292						
(5/1)	e mig bate, ou	ne 26, 2001				F	RECE	MFD
ENI & TRACT	First Named U	nit: Brad A.	Armstrong	[<u> </u>	<u> </u>		
	Group Art Unit:	2673	<u> </u>				APR 2 8	2004
	Examiner's Na				 _			
	Applicant File N	Number: F28	}			1	cinnology (enter 260
	5 111 41				 	16	Chinology C	011101 201
Examiner	Publication	Pub. Date	Inventor or			1		
Initials	Number		Assignee	ļ	 	 	 	
					 			
	IIS			Cited for related	 	 		
Chow	US 2001/0009037	7/19/2001	KOMATA `	interest				
21	US 2001/0040585		Hartford etal	Cited for related interest				
	US 2002/0122027		Kim	Cited for related interest				
					ļ			
			ļ	ļ	ļ			
					ļ		ļ	
			<u> </u>		 	·		
					 			
			·	<u> </u>	 	-	<u> </u>	
-					 .			
			l	<u> </u>	 	 -		
					 			
			·		 		1	
					İ			-
				·				
					ļ			
						ļ		
					-			
					 			
						 		
		•			 			
					 			
					 			
								
	-				 			
								
						-		

	7		•	1 / . /
Examiner	. /. /		Date	11/10/01
	0//2	//.		1 4/ / / / 05
Signature		1:1100~	Considered	
	147.57.74			

PTO/SB/08A (08-00) Approved to through 10/31/2002. OMB 0651-0031
U.S. Palent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number

Attorney Docket Number

Substitute for form 1448A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of 12

Co	mplete	If Known	
			_

Application Number Filing Date First Named Inventor Brad A Group Art Unit Examiner Name

			U.S. PATENT DOC	JMENTS		
Examiner Cit nitials No	Number	Kind Code ¹ (# known)	Name of Patentee or Applicant of Clied Document	Date of Publication of Cited Document: MM-DD-YYYY	Where Passage	columns, Lines, re Relevant res or Relevant res Appear
(Am)	5200597		Eastman	1993	generally	
	5207426		Inoue	1993	•	
	5287089	2	Parsons	1994	11	11
	5311779		Teruo	1994	11	
	5315204		Park	1994	н	11
	5364108		Esnouf .	1994	n	ii .
	5365494	,	Lynch	1994	11	**
	5376913		Pine	1994	11	11
	5396235		Maeshima	1995	61	11
	5440237		Brown	1995	11	11
	5457478		Frank	1995	11	**
	5640566		Victor	1997	н	11
	5670955		Thorne	1997	11	11
	5673237		Blank	1997	н	11
	5675329		Barker	1997	*1	11
_	5689285		Asher	1997	11	-,,
	5764219		Rutledge	1998	11	
	5778404		Capps	1998	fi	- 11
	5790102		Nassimė	1998	**	11
	15847305	T	Yoshikawa	1998	н	- 11

			FOR	EIGN PATENT DOCUMENT	S		
Examiner	Cito	Foreign Patent D	ocument		Date of Publication of	Pages, Columns, Line	
Initia is	-141-1-1	Office ³ Number ⁴	Kind Code ^a (# kaowa)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	1
Wina		DE3031484		Gurndig	1982	generally	211
:		DE3543890		Thomson-Brant	1987	n u	., 1
\perp		GB2113920		Alps Electric	1983	11	"
\dashv		GF 2058462	2	Shin-Etsu Polym	er 1981	. н	
		wn9957630)	Schneider	1999	n	"
		5-87760		Mitsumi Electri		H	**
+		JP7902159		Sega Enterprise	1995	11	,, -
		EP047061		Nintendo Co.	1992	**	,, -
		0 470 615		Nintendo Co.	1992		 -
		DE4013227	7	Poulsom	1991	11	-,,

Everine		
Examiner	Date	
Signature Change Change	Considered	1 2/10/05
	Consideren	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. 2 See attached Kinds of U.S. Palent Documents. 3 Enter Office that issued the document, by the two-letter code (MIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible, * Applicant is to place a check mark here if English language Translation is attached.

Please type a	plus elan (+) inside this	bax
, ,, , ,	A	,	_

→

PTC/SB/08A (08-00)
Approved for through 10/31/2002. CMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 12	Sheet	2	of	1	į
---------------------	-------	---	----	---	---

to a concentration	terress it contains a valid Civio control number.	
Co	mplete if Known	
Application Number		
Filing Date		
First Named Inventor	Brad A. Armstrong	
Group Art Unit	7.7.15	
Application Number Filing Date First Named Inventor Brad A. Armstrong Group Art Unit Examiner Name		
Attorney Docket Number		

				U.S. PATENT DOCI	JMENTS		
India No I Number		Document Kind Code ² (# known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
//m	/	5565891		Armstrong	1996	generally	
		5589828		Armstrong	1996	11-	11
		5999084		Armstrong	1999	11	**
		6102802		Armstrong	2000	61	1)
		6135886		Armstrong	2000	**	t1
		6198473		Armstrong	2001	61	"
		6208271		Armstrong	2001	61	11
		6222525		Armstrong	2001	\$1	£1
		3611068		Fujita	1971	61	ti
		3806471		Mitbbell	1974	11	13
		3952173		Tsuji	1976	0	11
		3988556		Hyodo	1976	11	00
		4224602		Anderson	1980	, "	11
		4313113		Thornburg	1982	n	11
		4315238		Eventoff	1982	11	11
		4552360		Bromley	1985	11	t)
		4673919	•	Kataoka	1987	11	fr .
\Box		478689 <u>5</u>		Castaneda	1988	11	11
\perp		4866542		Shimada	1989	11	£1
T		5164697		Kramer	1992	11	ti .

		FO	REIGN PATENT DOCUMEN	TS			_
Exeminer Initials	Cite No.1		Kind Codes Name of Palantee of Cited		Where Relevant Passages or Relevant		70
Min	/	.wo9532776	Namco	1995	generally	аÌ	Ϊ́
ii		ep1080753	Namco	2001	11	"	-
		Jp6154422	Namco	1994	11		
		jp9218737	Namco	1997	88	•	\vdash
		ep1080753	Namco	2001	1)	"	_
		ep0337458	Namco	1989	\$8	P9	
		ep0337458	Namco	1989	14	••	
		Jp7281824	Namco	1995	"		
		ep0470615	Nintendo	1992	11	61	
		ep0579448	Texas Instrume	ts 1994	44	-	

						
Examiner I	//		Date			
Cianak	\ / /	/ //.	•	٠.		1/_
Signature	_ Wan-	1 den	Considered	l J	///	// 0 [
				S J		103

EXAMINER: Initial If reference considered, whether or not clation is in conformance with MPEP 609. Draw tine through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English tanguage Translation is attached.

Please type a	plus sign (+) inside this be	-

PTO/SB/08A (08-00) through 10/31/2002, CM8 0651-0031 Approved (dates through 10/31/2002, CMB 0651-0031 U.S. Palent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	3	of	12

Complete If Known				
C	omplete if Known			
Application Number				
Filing Date				
First Named Inventor	Brad A. Armstrong			
Group Art Unit				
Examiner Name				
Atterney Docket Number				

xaminor Cite hitials No.1	U.S. Patent Documen Kind Cod	Name of Patentee or Applicant				
/um// 1	(# knows	of Cited Document	Oate of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
	5854624	Grant	1998	generall		
	5883619	Но	1999	•	11	
	5889236	Gillesnie	1999	61	11	
	5895471	King	1999	11	11	
	5948066	Whalen	1999	ţ:	"	
	5910798	Kim	1999	61	11	
	5943044	Martinelli	1999	11	11	
/ 	5974238	Chase	1999	67	11	
+	5995026	Sellers	1999	• • • • • • • • • • • • • • • • • • • •	••	
╀╼╂╼╼╂	6020884	MacNaughton	2000	11	11	
 	6049812	Bertram	2000	19	11	
	6118979	Powell	2000	11	**	
	6157935	Tran	2000	1)	11	
	6185158	Ito	2001	11	FF	
	00s.342740	Parker	1993	11	n	
Mund	5278557	Stokes et al	1994	11	11	
			-i-f			
	<u></u>	<u> </u>				

<u> </u>				FORE	IGN PATENT DOCUMEN	rs		
Examiner Cite Initials' No.1		Foreign Patent Do	curnent		Date of Publication of	Pages, Columns, Lines,	Τ-	
		Offices	Number	Kind Code ^a (# known)	Name of Palentee or Applicant of Cited Document	Cited Document MM-OD-YYYY	Where Relevant Passages or Relevant Figures Appear	70
		├						\top
								╁╴
	·							╁╴
								╁
								╁
								+-
}								
								_

ĺ	Examiner	1//		Date	
	Signature	- Wagn	Man	Considered	2/19/05

EXAMINER: Initial II reference considered, whether or not clistion is in conformance with MPEP 609. Draw line through glistion if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-latter code (MIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 6 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Sheet

JUN 1 8 2003

PTC/SB/08A (08-00)
Approved through 10/31/2002. CMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Petent and Trademark Office: U.S. DEPARTMENT OF COMMERCE the Paperwork Reduction Act of 1995, no persons are required to respond to a coffection of information unless it contains a valid OMB control number.

Substitute for form 1449APTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

4 1011 / /	

Complete If Known					
Application Number					
Filing Date					
First Named Inventor	Brad A. Armstrone				
Group Art Unit					
Examiner Name .					
Attorney Docket Number					

		-		U.S. PATENT DOCU	MENTS			7
Exeminer Initials'	Cite No.1	Number (##	Code ¹	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Wh Passa Fig	Columns, Lines, ere Relevant ges or Relevant ures Appear	1
		THE BELOW	LI	STED DISCLOSURES	PROM Quest	el-Orbit	QWEB 1-24	bages
						(hereto	attached)	
Mrs	/	5898359	<u> </u>	Delco	1999	general]
1		5550339		CTS Corp.	1996	94	11]
		5847639		Interlink	1998	10	11	1
		5867808	<u> L.</u>	IBM	1999	91	11	1
		5287089		Parsons	1994	#1	ŧı	1
		5132658		Semsym INC.	1992	11	0	1
		5196782		Luntron'	1991	***	1)	1
		4975676		Spectra	1990	10	10	1
		4694231		Alvite	1987	**	II,	1
		4615252		Asahi	1986	87	11	1
		4301337		Eventoff	1981	6)	11	1
		4314228		Eventoff	1982	13	81	1·
		4315238		Eventoff	1982	11	62	1
		4268815		Eventoff	1981	11	11	1
1 1/4		4276538		Eventoff	1981	H	88	1
 -}			Н					ł
- 		 	\vdash					ļ

	FOREIGN PATENT DOCUMENTS							
Evendese	0 4-		Foreign Patent Docum	ent	Name of Patentee or	Date of Publication of	Pages, Columns, Lines,	T
Examiner Initials	Cite No.1	Offices	Number ⁴	Kind Code ⁶ (# known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	77
May			jp11031606		Teikoku	1999	generally	al 1
i			Jp09223607		Teikoku	1997	11	1,
			Jp09213168		Teikoku	1997	11	
			DE19606408		Contelec	1997	11	
2.1			GB2308448		Samsung	1997	40	,
		1000	RU2010369	1100	·Smyslov	1994	11	1
			GB2267392		Collins	1993	17	-,-
			jp05151828		Yokohama	1993	***	
			jp04155707		Yokohama	1992	n	1
			jp03108701		Canon	1991	0	j ,

Questel-Orbit data continued on next sheet

Examiner			Date /
0:	I 1///		
Signature	N/a	1/1/1/1/1/	Considered 2//9/6
	- KAAAA		

Burden Hour Stalement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

[&]quot;EXAMINER: Initial II reference considered, whether or not clistion is in conformance with MPEP 609. Draw line through citation II not in conformance and not considered, include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Picase	type a plus sign (+) inside this box	→	

PTO/SB/08A (08-00) Approved (an inhough 10/31/2002, CM8 0651-0031 U.S. Palent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a yalid OMB control number. Complete If Known Substitute for form 1449A/PTO **Application Number** INFORMATION DISCLOSURE **Filing Date** STATEMENT BY APPLICANT First Named Inventor Brad A Armstrong Group Art Unit (use as many sheets as necessary) Examiner Name Sheet 01 Attorney Docket Number

				Orbit continuati		
				U.S. PATENT DOCU	JMENTS	
Exeminer Initials*	Cite No.1	U.S. Pater Number	Kind Code ²	Name of Palentee or Applicant of Cited Document	Oate of Publication of Cited Document MM-DD-YYYY	Pagas, Columne, Lines, Where Relevant Passages or Relevant Figures Appear
-						
						
						
 				•		
					- 	
					 	
	-				 	
					 	
 						
	\rightarrow					

					EIGN PATENT DOCUMEN	TS		
Examiner	Cia	—	Foreign Patent Document		Name of Patentee or	Date of Publication of	Pages, Columns, Lines,	1
initials'	No.1	Office		(# knows)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	1
Um	v	igsquare	GB2233499		Mitsubishi	1991		a 1 1
/_			DE4019211		Lutron	1991		
$ \!$			Jp 021581	05	Yokohama	1990	11	-
$-\!$			DE3634912		Link	1988		+
			jp6216062	3	Yamatake	1987	11	4-
			1p601: 7540	01	'Asahi	1985		•
								\top
						 		╂
						 		╄

Cun mile an				/	
Examiner	//		Date		
Signature	1 1// /			1 / - /	
Colfinginia	- Warn	1/1/16/	Considered	2//0/0	1
EVALUACE. L				<u> </u>	7

WNER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (MPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST, 16 Kind of the patent document under WIPO Standard ST, 16 Kind of the patent document under WIPO Standard ST, 16 Kind of the patent under WIPO Standard ST, 16 Kind of t possible. Applicant is to place a check mark here if English language Translation is attached.

Please type a	plus elgn (+))-inside this box
---------------	---------------	-------------------

		_
ľ	→	

PTO/SB/08A (08-00)
Approved for hrough 10/31/2002. CMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

/	0		P	Ē	F
9 Pa	JUN	1	8	200	3 8
(P)	TS TA	ΆĐ	EN	AARY	*

Substitute for form 1448A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

heet	6	of	17
			 -

Complete If Known								
Application Number	Application Number							
Filing Date								
First Named Inventor	Brad A.	Armstrong						

Luzt Mamed Inventor	prad A.	Arms
Group Art Unit		
Examiner Name		
Attorney Docket Number		

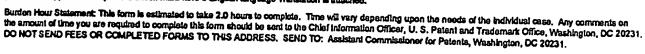
	U.S. PATENT DOCUMENTS						
Examiner Initials	No.1	U.S. Petent Number	Kind Code ² (# known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Peges, Coty Where R Passages o Figures	televant v Relevant
lon	/	3771037		Bailey	1973	generally	all
		4733214	,	Andersen	1988	•	11
		5103404	,	McPatosh	1992	#	11
-		5189355		Larkins	1993	H	10
\perp		5203563		Loper	1993	1)	1)
				· ·			
		·		•			
							
			 				
		-	- - 				
			- - 				
			- 				
					 		
					 		
			1		 		
					 		
					 		
					 		

				FORE	IGN PATENT DOCUMEN	TS		
Exeminer	Cite		Foreign Palent Do	oument		Date of Publication of	Pages, Columns, Lines,	т-
Initials'	No.1	Office	Number ⁴	Kind Code ^a (# known)	Name of Palantee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Fliqures Appear	75
								+
								╁
						 		+-
						 		┼
						 		╀—
7						 		↓
								╀
								丄
					<u></u>	<u> </u>		
	_							

(Francisco)		
Examiner (//	Date	-
Signature ///		
EVALUATE A STATE OF THE STATE O	Considered . A//9/05	

If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.



Please type a plus eign (+) inside this box -	٦,	
	7 [

of

Sheet

PTC/SB/088 (08-00)
Approved for Through 10/31/2002, OMB 0651-0031
U. 8. Petent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number

Filling Date

First Named Inventor Brad A. Armstrong

Group Art Unit

(use as many sheets as necessary)

Examinar Name

Attorney Docket Number

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Exeminer Initials	Cite No.1	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the lam (book, magazine, journal, serial, symposhum, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
Chin		Vol. 20 No. 5 Oct. 1977 S.F. KAMBIC, IBM Technical Disclosure Bulletin, (general)	У
Chr	/_	Questel-Orbit QWEB Pages 1-24 (submitted herewith) (generally all is relevant)	
	_		
Examiner Signature		Date Considered 2/19/01	\exists

*EXAMINER: Initial if reference considered, whether or not obtains is in conformance with MPEP 609. Draw the through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the buildidual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patient and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patients, Washington, DC 20231.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

PTC/S8/088 (08-00)
Approved use through 10/31/2002. CMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Peperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

JUN 1 8 2003	Substi
PADEMARK	Sheet

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number

Filing Date First Named Inventor Brad Armstrong Group Art Unit

Complete if Known

(use as many sheets as necessary) 8 of 12

Examiner Name Attorney Docket Number

	_	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Exeminer Initials	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	172
Uni		IBM TECHNICAL DISCLOSURE BULLETIN pp230-235 Feb. 1990 Mouse Ball-Actuating Device With Force And Tactile Feedback (generally all relavant)	
Min		Mouse Ball-Actuating Device With Force And Tactile Feedback (generally all relavant) RESEARCH DISCLOSURE November 1987 28373 Joystick with Tactile Feedback (generally all relevant)	
0 10		(generally all relevant)	
Examiner		(// Date	_

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Date

Considered

Signature

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

PTC/SB/08A (10-01)

Approved for use through 10/31/2002, OMB 0851-0031

U.S. Patent and Trademark Office: U.S. OEPARTMENT OF COMMERCE control number. control number.

PRADEN

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of

Complete If Known					
Application Number		<u> </u>			
Filing Date	•				
First Named Inventor	Brad	A.	Armstrong		
Art Unit					
Examiner Name			`		
Attorney Docket Number			 		

			U.S. PAT	ENT DOCUMENTS	
	Cite No.1	Document Number Number - Kind Code ³ (# known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
die		us-5510812	1996	O'Mara	Generally all
		us 4469330	1984	Asher	generally all
		us 4246452	1.981	Chandler	generally all
		us 5565891	1996	Armstrong	generally all
\dashv \dashv		US D355901	1995	Bradley	generally all
\dashv		us 4555960	1985	King	
		us-4924216	1990	Leung	generally all
44		us- 4933670	1990	Wislocki	generally all
-		us 5065146	1991	Garrett	generally all
+		us 5128671	1992	Thomas, Jr.	generally all
+		US 5237311	1993	Wislocki	generally all
+	-4	us- 5293158	1994	Soma	
44		us 5298919	1994	Chang	
44		US 5329276	1994	Hirabayashi	generally all
++		us 2430284	1947	Evers	generally all
+-+		us 3693425	1972	Starita et al	generally all
++	\rightarrow	us 3921443	1975 ·	Hill et al	generally all
+	_	us 4099409	1978	Edmond	generally all
++	_	us 4216467	1980	Colston	generally all
4		US- 4297542	1981	Shumway	generally all

		FOR	EIGN PATENT D	OCUMENTS	
	No.1	Conty Code 3 - Number 4. Ided Code 5 (Finance)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Whiere Relevant Passages or Relevant Figures Appear
[Azens I	_	5-87760 (Japan) 7-302159 (Japan)	1993	Mitsumi Elec. Sega Enter.	generally al
	-	0 470 615 A1 (EP) 0205726 (EP)	1992	Nintendo	generally all generally all
7		739505 (SU)	1986 1977		generally all generally all
		2205941 (GB) 2240614 (GB)	1988 1991		generally of
				·	Bonorari,
					

Examiner Date: Signature Considered

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. One line through citation if not in

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Graw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinde Codes of USPTO Patent Documents at www.usition.org/ or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard 8T.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the emount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Commissioner for Patents, Washington, OC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, OC 20231.

PTC/SB/8A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Control number. control number.

Substitute	for form 1448A	PTO		Co	Complete if Known				
INEO	DMATIO	N. DIC	CLOSURE	'Application Number	· · · ·				
				T PRINCE LANCE.		· · · · · · · · · · · · · · · · · · ·			
STAT	EMENT	BY AF	PLICANT	First Named Inventor	Brad A.	Armstrong			
4	100 00 many a	handa an		Art Unit	-				
	ise as many si	106CS 63 N	ecessajy)	Examiner Name					
Sheet	10	of	12	Attorney Docket Number					

			U.S. PAT	ENT DOCUMENTS	
		Document Number Number - Kind Code ² (# Incur	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
4/11		us4348142	1982	Pigour .	Figures Appear generally all
		U84369663	1983	Venturallo etal	generally all
-		U84414537	1983	Grimes	Bonorarry arr
+		us4536746	1985	Gobeli	11
+		US4555960	1985	King	tt p
4		us4670743	1987	Zemke	11
+		us4684089	1987	van der Lely	77
-		us4811608	1989	Hilton	er w
		US4855704	1989	Betz	11
		us4910503	1990	Broadsky	H H
.		us-4935728	1990	Kley	W 4
	_	US-5128671	1992	Thomas, Jr.	99
		US-5142931	1992	Menahem	ti ti
		us-5168221	1992	Houston	11 11
	_	U&5189355	1993	Larkins et al	13
		us-5252952	1993	Frank et al	11 11
_		us:5329276	1994	Hirabayashi	1)
		US-			
		US-			
		U8-			

			FOR	IGN PATENT D	OCUMENTS	
7/	Cite No.1	Canty Code 3 -Number	nt Document	Publication Cate	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Myn		0205726	EP)	1986		generally all
1		739505 2205941 2240614	(SU) GB) GB)	1977 1988 1991		generally all generally all generally all
					·	··

Examiner Date Signature Considered

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

commence and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Petent Occuments at www.unplo.com or MPEP 801.04. 3 Enter Office that issued the document, by the two-latter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. Applicant is to place a check mark here if

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any convents on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Sheet

PTC/SB/08A (08-00)
Approved for through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

C	omplete if Known	
Application Number		
Filing Date		
First Named Inventor	Brad A. Armstrong	_
Group Art Unit		
Examiner Name		—
Harray Dacket Mumber	† 	_

Not all are prior art to the present invention

			U.S. PATENT DOCU	MENTS			
xaminer	Cite No.1	U.S. Patent Document Number Kind Code (# known)	at Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
/ lu		4766271	MITSUHASHI ET AL		generally		
		4604509	CLANCY ET AL	1986	67	11	
\dashv		6256011	CULVER	2001	**	Ħ	
$-\!$		6231444	GOTO ET AL	2001	11	11	
\mathcal{L}		6001014	OGATA ET AL	1999	11	11	
$\perp \perp \perp$		5984785	TAKEDA ET AL	1999	11	11	
		5294121	CHIANG	1994	11	11	
		5606594	REGISTER ET AL	1997	0	ii .	
I = I		5391083	ROEBUCK ET AL	1995	11		
I = I		5139439	SHIE	1992	11	*1	
		6040821	FRANZ ET AL	2000	11	ri .	
		5396225	OKADA ET AL	1995	11	11	
		5999808	LADUE	1999	l1	11	
		4858930	SATO	1989	11	11	
		5670988	TICKLE	1997	11	11	
		5184830	OKADA ET AL	1993	11	••	
		5552799	HASHIGUCHI	1996	11	11	
		5355352	KOBAYASHI ET AL	1994	11	11	
	T	5564560	MINELLI ET AL	1996	11	11	
1		5923317	SAYLER ET AL	1999	11	11	

		,			IGN PATENT DOCUMENT	rs		
Examiner	Cite		oreign Patent Do	cument	Name of Patentee or	Date of Publication of	Pages, Columns, Lines,	T
Inllials	No.1	Office3	Number ⁴	Kind Code ^s (# kaowa)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	77
								Т
								\top
								十
								╁
								┿
								†
					•			†
								✝
							-	
				. 1 1				╁╾

Examiner Signature	Van	(SIM)	Date Considered	2/10/10
		1717000	Considered	2/19/00

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation, not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Sheet

PTO/SB/08A (08-00)
Approved through 10/31/2002. CMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Co	omplete if Known
Application Number	
Filing Date	
First Named Inventor	Brad A. Armstrong
Group Art Unit	ALMS CLOUB
Examiner Name	
Attorney Docket Number	

Not all are prior art to the present invention

	U.S. Palent Documer	U.S. PATENT DOCU		1
xeminer Cite nitials' No.1	Number Kind Co	Name of Palentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Cotumns, Lines, Where Relevant Passages of Relevant Figures Appear
Univ	5555004	ONO ET AL	1996	generally all
	5963196	NISHIUMI ET AL	1999	11 H
	5059958	JACOBS ET AL	1991	11
	4158759	MASON	1979	11
	4406217	OOTA	1983	11
	6198948	SUDO ET AL	2001	11
	5669818	THORNER ET AL	1997	11
	6422941	THORNER ET AL	2002	11
	5231386	BRANDENBURG ET A		11
	5889507	ENGLE ET AL	1999	· · · · · · · · · · · · · · · · · · ·
	6326948	KOBACHI ET AL	2001	11
	5689285	ASHER	1997	11
	6352447	SOMA ET AL	2002	11
	4680577	STRAAYER	1987	11
,	6524187	KOMATA	2003	11 11 .
			 	
		1	 	

		,						F	OR	<u>EIGN P</u>	ATENT DOC	UMENT	S		
Examiner	Cite	<u> </u>	F	oreig	Pete	nt Do	oum				Name of Patentee or		Date of Publication of	Pages, Columns, Lines,	T
initials'	No.1	Office				Kind Code ¹ (# knows)		Applicant of Cited Document		Cited Document MM-DD-YYYY	Where Relevant Passage's or Relevant Figures Appear				
[//s	2	<u> </u>	EΡ	0	83	5 (67	6		SEGA	ENTERP	RISES	1989	generally a	11
			-					-							
		-	┢					+							oxdot
															├
															╂━
		_	-												T
		_	├				_								
\dashv			 						-1						<u> </u>

	· · · · ·			
Examiner	1 // /		Date	7
Signature				1/1/2/2
3.8.13.010	1 /An	-1-1/m	Considered	0//9/05
EXAMINER: In	illal V calaranca considera	t what are and about a first to the		

*EXAMINER: Initial if reference considered, whether or not chellon is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (MPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under MPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English tanguage Translation is attached.

PTC/SB/08A (08-00)
Approve through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of 1 1

Complete	If Known
----------	----------

09/893,292 **Application Number** 06/26/01 Filing Date

First Named Inventor Brad A. Armstrong Group Art Unit

Examiner Name **Attorney Docket Number**

				U.S. PATENT DOCU	JMENTS	
	Cita	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant
	No.1	Number	(# knows)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
					<u> </u>	
						
	1					-
		,				
						· · · <u></u>
				-		
					1	
				-	1	·
					- 	

				FOR	EIGN PATEN	T DOCUMENT	S .			1
Examiner Initials	Cite No.1	Office	Foreign Patent Doc.	Iment Kind Code ^s (# knows)	Name of Patentee or Applicant of Cited Document		Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant		
Um	/	JP	JP7302159		SEGA E	Enterp Li		generally al	ī	1
Um	$\sqrt{}$	JР	5-87760		MITSUMI	ELECTRI	C Nov. 199	3. generally	а	ħ1
-										
					•					ł
					•					
		_								ſ
									\vdash	

Examiner			l Date	/ / -
	1///		Date	. / ///~
Signature	I i///		ابيناما	1 / 2 / ///
Signature	N/Ra	1 11.	Considered	J //4/ O(
	· · · · · · · · · · · · · · · · · · ·			X / / / /

EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (MPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 6 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.